

Section 821. PRESERVATION OF LAND MONUMENTS AND PROPERTY CORNERS

821.01 Description. When monuments are expected to be disturbed by construction, the following shall occur.

- A. The affected public land survey corners and property controlling corners shall be witnessed prior to the beginning of construction. They shall be remonumented and witnessed according to Public Act 74 of 1970 as amended (including P.A. 34 of 2000). The Contractor shall coordinate the work with a professional surveyor licensed in the State of Michigan during the appropriate construction activity for the purpose of placing monument boxes in the new or rehabilitated pavement.
- B. Upon completion of the requirements of Public Act 74 as amended, the professional surveyor shall prepare and record with the Register of Deeds in the appropriate county, a Land Corner Recordation Certificate. The Contractor shall submit two copies of the recorded certificate (with liber and page); one shall go to the Engineer and one shall be submitted to the Supervising Land Surveyor, Design Division.

The Land Corner Recordation Certificate must contain a complete history of the corner as recorded in state and local government files. The monument existing prior to construction must be fully described along with any existing accessories of record. The new monument and installation shall be described in sufficient detail to allow positive identification of the corner.

- C. When specified on the plans, alignment control points shall be witnessed and reestablished as detailed above except that the land corner recordation will not be performed.

All monument points requiring preservation shall be witnessed in a manner that insures that the replacement monument can be positioned within 0.02 feet of the original. The replacement monuments shall meet the specifications established in Act 74 as amended. Permanent witnesses to replacement monuments must have a minimum expected life of five years.

All government monuments unnecessarily destroyed will be reestablished by a professional surveyor hired by the Contractor at no cost to the Department. Replacement shall be completed in a timely manner. If the reestablishment is not completed, the Engineer will hire a professional surveyor to complete the work. Costs shall be charged to the Contractor.

821.02 Materials. When required by law, Contractor furnished monument box castings shall be installed at survey points designated on the plans or as directed by the Engineer. Refer to contract documents for additional information.

821.03 Construction. Placement of monument boxes shall be by coring after all paving operations have been completed. Coring equipment shall be approved by the Engineer prior to starting the work. Core diameter shall be a maximum of one inch larger than the largest dimension of the casting. The monument box shall be grouted in place with non-shrink grout approved by the Engineer.

Monument boxes shall be installed so that no part of the box or cover extends above the pavement surface and no part is more than 0.02 feet below the elevation of the pavement surface. Boxes shall be positioned horizontally so the central axis of the box is not more than 0.03 feet from the witnessed corner position. The Contractor shall use suitable installation methods and materials to

ensure that the monument box maintains its position with respect to the roadway surface for a period of two years.

821.04 Measurement and Payment.

Contract Item (Pay Item)	Pay Unit
Monument Preservation	Each
Monument Box	Each
Monument Box, Adj	Each

This work shall include temporary witnessing, installation of new monument, permanent witnessing and recording of the Land Corner Recordation Certificate according to the appropriate public act.